

[Name of Document] ABSTRACT

[Abstract]

[Object] To provide a method of manufacturing a glass substrate for information recording media that allows the inner and outer peripheral edge surfaces of the glass substrate for information recording media to be smoothed easily and inexpensively, a glass substrate for information recording media manufactured using this method, and an information recording medium using this glass substrate.

[Construction]

A material glass plate of thickness 1.0mm is prepared. A donut-shaped glass disk having an outside diameter of 84mm and an inside diameter of 25mm is cut out from the material glass plate. The method of doing this is to irradiate with a laser beam along the cutting lines to cause strain or insert the cutting lines using a wheel cutter, and then cut along the cutting lines. Then by grinding the outer and inner peripheries of the glass disk, the outside and inside diameters are adjusted. Then a laser beam is irradiated onto each of the inner peripheral edge surface and the outer peripheral edge surface of the glass disk using a laser beam irradiation apparatus. Further, the glass disk is strengthened using chemical strengthening treatment, and finally, the glass disk is washed using warm water, alkaline washing water or pure water, to wash salt and other foreign matter of the like attached to the glass disk.